

## Abstract

Monoclonal antibodies, in particular 33.28 and 31.1, and chimeric antibodies, in particular mouse/human chimeric Chi #1 specific for glycoprotein antigens of colon carcinoma-associated antigens which are immunogenic in humans, are disclosed. Such antibodies, and fragments and derivatives thereof, are useful in immunodiagnosis and immunotherapy of human colon, breast, and ovarian cancer, and for purification of antigens which can serve as immunotherapeutic agents. Methods of detecting the colon carcinoma-associated antigen in a sample, and methods for treating subjects having colon, breast, and ovarian carcinomas are disclosed.

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